



E_{ca}

APPLICATION

TopData® VHOV-K (PAR-POS) & VOV-K (POS) is a flexible screened cable for signalling and control on industrial machinery facilities. The collective screen (VOV-K) and individual and collective screen (VHOV-K) make them especially suitable for areas where electrical noise protection is required.

CONSTRUCTION

Conductor

Electrolytic annealed copper conductor, class 5 (flexible) according to EN 60228 and IEC 60228.

Insulation

Flexible PVC.

The standard identification of insulated conductors is the following:

2x Pairs numbered (black + blue).

Other colours available on request.

Assembly of cores

Stranded conductors in pairs.

Individual screen (VHOV-K (PAR-POS))

Individual polyester (per pair) composed by aluminium / polyester tape with 100% coverage + tinned copper drain wire.

Assembly of pairs

Cabled in concentric layers.

Collective Screen

Aluminium / polyester tape with 100% coverage + tinned copper drain wire.

Outer sheath

Flexible PVC sheath black color. The ripcord allows you to gently tear the outer-sheath and remove it without damaging the screen.

CHARACTERISTICS

⚡ Electrical performance

Low voltage: 300/500 V.

🌡 Thermal performance

Maximum service temperature: 70°C.

Maximum short-circuit temperature: 160°C (max. 5 s).

Minimum service temperature: -30°C (fixed and protected installations).

🔥 Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Reaction to fire CPR: E_{ca} according to EN 50575.

Low halogen emission. Chlorine < 15%.

📏 Mechanical performance

Minimum bending radius: 5x cable diameter.

Impact resistance: AG2 Medium severity.

🌐 Environmental performance

Chemical & Oil resistance: Good.

UV Resistant according to UNE 211605.

Water resistance: AD5 Jets.

🌞 Installation conditions

Open Air.

Buried.

In conduit.

STANDARDS / COMPLIANCE

📄 Based to
EN 50288-7

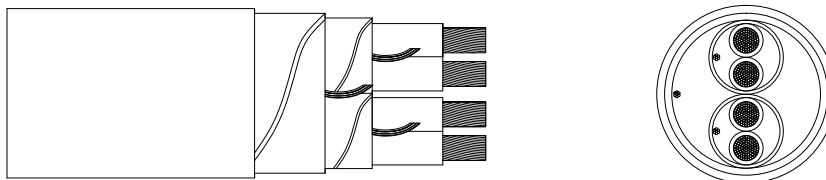
⚙ Standards and approvals
RoHS / CE

🛡 CPR (Construction Products Regulation)
E_{ca}



VHOV-K (PAR-POS) & VOV-K (POS) 300/500V

DIMENSIONS & ADMISSIBLE INTENSITIES



Tipo VOV-K

Cross-section (mm ²)	Diameter (mm)	Weight (Kg/km)	Resistance at 20°C (Ω/km)	Capacity between cond. (F/km)
1 x 2 x 0,75	5,7	45	26,0	0,601
2 x 2 x 0,75	8,0	65	26,0	0,601
4 x 2 x 0,75	9,4	115	26,0	0,601
2 x 2 x 1	8,6	90	19,5	0,641
4 x 2 x 1	9,8	140	19,5	0,641
10 x 2 x 1	15,0	335	19,5	0,641
12 x 2 x 1	15,8	365	19,5	0,641
1 x 2 x 1,5	6,8	65	13,3	0,661
2 x 2 x 1,5	10,0	125	13,3	0,661
4 x 2 x 1,5	11,9	200	13,3	0,661
8 x 2 x 1,5	15,5	365	13,3	0,661
10 x 2 x 1,5	18,4	455	13,3	0,661
12 x 2 x 1,5	19,0	520	13,3	0,661

Tipo VHOV-K

Cross-section (mm ²)	Diameter (mm)	Weight (Kg/km)	Resistance at 20°C (Ω/km)	Capacity between cond. (F/km)
2 x 2 x 0,75	8,8	90	26,0	0,601
4 x 2 x 0,75	10,4	145	26,0	0,601
8 x 2 x 0,75	13,6	260	26,0	0,601
12 x 2 x 0,75	16,6	370	26,0	0,601
16 x 2 x 0,75	17,9	470	26,0	0,601
2 x 2 x 1	9,4	105	19,5	0,641
3 x 2 x 1	9,7	130	19,5	0,641
4 x 2 x 1	10,8	165	19,5	0,641
10 x 2 x 1	16,4	370	19,5	0,641
1 x 2 x 1,5	6,8	65	13,3	0,661
2 x 2 x 1,5	10,3	140	13,3	0,661
4 x 2 x 1,5	13,0	225	13,3	0,661
8 x 2 x 1,5	17,0	415	13,3	0,661
10 x 2 x 1,5	20,2	510	13,3	0,661
12 x 2 x 1,5	21,1	600	13,3	0,661